

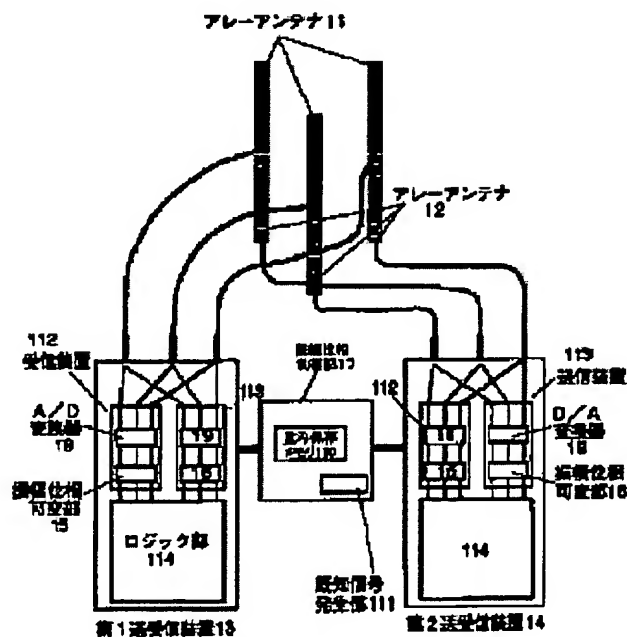
# ARRAY ANTENNA DEVICE FOR MOBILE COMMUNICATION BASE STATION AND CONTROL METHOD

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## Abstract of JP11243359

**PROBLEM TO BE SOLVED:** To reduce an interference wave from an adjacent base station and also to make an antenna directional characteristic a wide circular area by mutually and independently adjusting the directional characteristic of an antenna to a 1st transmitter-receiver and the directional characteristic of the antenna to a 2nd transmitter-receiver. **SOLUTION:** After signals received by antennas 11 or 12 have their phases and amplitudes adjusted in an amplitude phase varying part 15 of 1st or 2nd transmitter-receivers 13 or 14, they are synthesized within a logic part 114. The directional characteristic of the array antennas 11 and 12 to a signal to be received is adjusted by changing adjustment quantity of phase and amplitude which is operation quantity in the parts 15. Similarly, the directional characteristic of the antennas 11 and 12 to a signal to be transmitted is adjusted by changing adjustment quantity of phase and amplitude in amplitude phase varying parts 15. When the operation quantity of the parts 15 and 16 is adjusted, the null points of the directional characteristic of the antennas 11 and 12 can be changed.



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